INSTRUCTIONS FOR:

1 TONNE, QUICK LIFT, FOLDING ENGINE CRANE

MODEL No: **WF10Q**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: **PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.**

Refer to instruction manual | Wear protective footwear | Wear protective gloves

1. CONTENTS

2. GENERAL

2.1 Identification

Supplier: Sealey Power Products,
Kempson Way,
Suffolk Business Park,
Bury St Edmunds,
Suffolk, IP32 7AR.

Model No: WF10Q

2.2 Technical Data

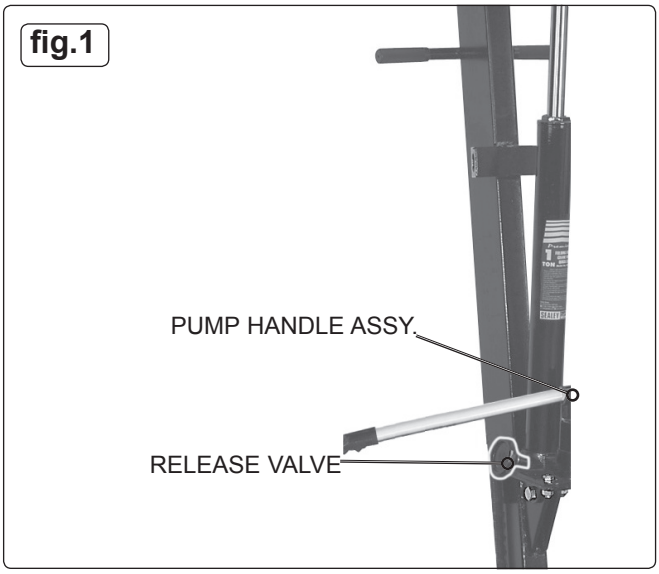
Rated Capacity

Safe Working Load (SWL) 1t (tested to 50% overload).
Working Load Limit (WLL) 1t (tested to 50% overload).

Lifting Cap. in Position 1: 1000kg
Lifting Cap. in Position 2: 900kg
Lifting Cap. in Position 3: 800kg
Lifting Cap. in Position 4: 700kg
Lifting Cap. in Position 5: 600kg
Weight: 84kg

a) Design Capability: Test Load 50% overload.
b) For a description of in-service and out-of-service conditions see Section 3 Safety, Section 4 Maintenance and Section 6.
c) The crane is fitted with a bypass valve that will prevent the ram from over extending.
d) For applications see Section 3 Safety.
e) For control system, see Fig.1 for release valve and pump handle assy. Usage is explained in Section 3.2 Operation.
f) For ground condition requirements, see Section 3 Safety.
g) For information on parts and materials requiring specialised repair techniques see Section 4 Maintenance.

fig.1



3. SAFETY/OPERATING INSTRUCTIONS

3.1 SAFETY

✓ **Keep** crane, lifting slings, support and beams in good working order and condition. Follow the inspection requirements as described in Section 4 page 2 Maintenance. *Take immediate action to repair or replace damaged parts by contacting your supplier. Ensure that all accessory lifting devices are suitably certified. If crane is damaged, remove from service immediately.*

✓ ***Ensure the surface on which the crane is used is level, firm and capable of supporting the weight of the crane with maximum load - we recommend concrete. Never use the crane on tarmacadam or other soft surfaces.***

✓ **Ensure** the crane legs and arms are locked before use.

✓ **Keep** children and unauthorised persons away from the working area.

✓ **Keep** working area clean and tidy, free from unrelated materials and ensure that there is adequate lighting.

✓ **Ensure** that load does not exceed the maximum lifting capacity of the crane. Overloading the crane is dangerous. Where appropriate, use only the lifting points recommended by the manufacturer of the item to be lifted, e.g. vehicle engine.

✓ **Before** lifting the load ensure that the crane jib is in the lowest practical position, that there are no obstacles which may snag the load whilst it is being lifted and that the area above the jib is clear.

✓ **To** avoid injury, be fully aware of your own and other persons locations in relation to the lifting and lowering, of the load.

✓ **Keep** a sound footing and balance, and ensure the floor is not slippery.

✓ **Ensure** jib extension locking bolt and nut are in position before lifting.

✓ **Ensure** the centre of gravity always remains inside the crane base.

✗ **DO NOT** harness the load at an angle or use any attachments not verified as fit for purpose.

✗ **DO NOT** allow the load to swing during lifting.

✗ **DO NOT** allow the load to drop suddenly. Lower load with care, ensuring that you are fully aware of the condition of the surface onto which the load is to be placed.

✗ **DO NOT** load crane beyond its rated capacity for each specified jib extension position as indicated in Section 2 page 1. The capacity of the crane reduces as the jib is extended.

✗ **DO NOT** position any part of your body beneath the load.

✗ **DO NOT** use the crane to move or transport a load other than for repositioning (see 3.2.f). The crane is a lifting device only.

✗ **DO NOT** apply any sideways pressure to any part of the crane during lifting or when a load is suspended.

✗ **DO NOT** attempt to adjust the safety valve, which has been set and sealed by the manufacturer.

✗ **DO NOT** use this product to perform a task for which it is not designed.

✗ **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.

✗ **DO NOT** climb on the crane.

✓ **When** not in use fold the crane down and store in a safe, dry, childproof area.

✓ ***This crane is designed for lifting within a garage or workshop environment.***

❒ **WARNING! Failure to heed safety and warning instructions may result in damage and/or personal injury and will invalidate the warranty.**

NOTE: ENSURE YOU HAVE READ AND UNDERSTOOD THE SAFETY INSTRUCTIONS AT THE BEGINNING OF THIS SECTION BEFORE YOU OPERATE THE CRANE.

3.2 OPERATION. (Refer to Section 4.3 (a) regarding inspection before each and every use).

a) Always use the jib in its retracted position where the capacity is greatest, whenever possible. Extend the jib only when necessary to reach the load. When changing the position of the jib extension, place the jib in the horizontal position to prevent it sliding in or out and always remember to replace the locking pin and tighten the locking bolt. Be sure that the load is within the rated capacity for the particular jib position selected.

b) Remove the pump handle from its stowage position on the main upright. Slide it into the pump socket and commence pumping. The jib will start to move upwards. Continue to pump until the jib reaches the height at which the load can be secured.

c) Connect the crane hook to the load using a suitable sling or support beam. Be aware of the load weight, and check that it is within the capacity of the crane (at the jib extension you are using) and the sling or support beam. When removing engines ensure the weight is known. Use only the lifting points recommended by the vehicle manufacturer.

d) Lift only from directly above the load. ***WARNING! DO NOT LIFT THE LOAD AT AN ANGLE!***

e) To lower the load turn the release valve *VERY SLOWLY anti-clockwise* until the jib starts to move slowly downwards. The rate of descent can be controlled by fine movements of the release valve handle. Avoid sudden twisting movements. ***WARNING! DO NOT*** allow the load to drop suddenly.

f) The crane is not a transportation device but may be used to reposition the load being worked on. To do so, lower load and jib with care, to the lowest possible point before attempting to move.**DO NOT** try to move crane in a sideways direction. The crane is not designed to support the load indefinitely. When the load has been repositioned, lower the load onto a secure and appropriate working base, being fully aware of your own and other persons locations in relation to the lowering load.

g) When load has been secured, remove lifting sling, support beam etc. and place crane in a safe location with lifting beam fully lowered.

4. MAINTENANCE/EXAMINATION/INSPECTION

NOTE: The crane MUST be kept clean and dry and must be maintained in accordance with these instructions.

4.1. Lubrication.

a) Oil all working parts monthly.

b) The ram is filled with oil and should only require occasional topping up. For the occasional top up **DO NOT** use brake fluid, as this will damage the hydraulic seals. Proceed as follows:

1) Use only good quality hydraulic jack oil available from your supplier.

2) **DO NOT OVERFILL** as this will cause failure**,** with ram in lowered position remove rubber bung located on the ram and top up to just below the filling hole. Replace rubber bung.

3) After filling with hydraulic oil, pump the crane up to full height and pour off any excess oil.

4.3. Inspection and Examination of Crane Before Use.

a) Before each use of the crane, perform an inspection for leaks, damage, loose or missing parts.

b) The workshop crane must be examined immediately if it has been subject to an abnormal load or shock. It is recommended that such an examination is made by an authorised service agent.

c) The owner and/or operator must be aware that repair of this equipment will require specialised knowledge and facilities. It is recommended that an annual examination of the workshop crane is made by an authorised service agent.

d) Unauthorised parts may be dangerous and will invalidate the warranty.

Note! Please see the Definition of 'inspection' and 'examination' below.

Inspection:

Looking at the crane for defects and checking the operation of the controls, limiting and indicating devices without loading the crane. This check does not normally require any part of the crane to be dismantled other than removal or opening of covers or housings.

Examination:

Verification that the crane can safely continue in service including a functional test of all safety devices i.e. limiting, indicating equipment, brakes, clutches, safety valves etc to verify that they operate within the required tolerances. An examination is more thorough than an inspection.

5. ASSEMBLY/STORAGE INSTRUCTIONS

5.1 ASSEMBLY.

a) Attach the rear support (No.02) to the main post assembly (01) using four M10 - 21mm bolts (29) with four split washers (30).

b) Attach the two swivel castor wheels (12) to the rear support using a large spacer washer (34), followed by a split washer (33) and an M16 nut (32).

c) Attach the small wheels (45) to the two 'U' shaped brackets on the lower front edge of the main support using two M8 - 45mm bolts (39) and secure each with a split washer (40) and nut (41).

d) Attach a wheel (12) to each leg (03 & 04) using an M10 - 45mm bolt. Secure each with a split washer (43) followed by a nut (44).

e) Lay each leg in turn (03 & 04) into the channels either side of the main support (01). Secure each leg with an M10 - 70mm bolt (38) remembering to use a split washer (31) in each instance.

f) Assemble the leg locking pins (see item F) by screwing a knob (16) to an Ø18mm - 85mm long pin shaft (14) and push a 'C' clip (17) into the groove on the locking pin. Ensure that the locking hole in each leg is aligned with the two holes in the channels and insert a locking pin completely through each leg and the frame. Retain each locking pin by inserting an 'R' clip (18) through the hole in each locking pin.

g) Attach the bracket (09) to the base of the hydraulic unit (08) using three M10 - 30mm bolts (49), three split washers (50), and three nuts (51). Then attach the hydraulic unit assembly to the bracket on the main upright using an M14 - 65mm bolt (35), secured with a split washer (36) and a nut (37).

h) Seek help from another person when attaching the jib to the top of the main post. Align the holes at the back of the jib with the holes in the top of the post and insert an M20 - 100mm bolt (24). Secure the bolt with a split washer (25) and a nut (26).

i) Position the ram piston in between the jib bracket and align the hole in the top of the piston with the holes in the bracket and connect the two together using an M16 - 90mm bolt (21). Secure the bolt with a split washer (22) and a nut (23).

j) Assemble the jib locking pin (see item B) by screwing a knob (16) to the Ø12.5mm - 90mm long pin shaft (15) and push a 'C' clip (19) into the groove on the locking pin.

k) Slide the jib extension (06) into the jib (05). Align one of the holes in the extension with the holes near the end of the jib and retain it by inserting the jib locking pin. Secure the jib locking pin by inserting an 'R' clip (18) through the hole in the pin. Further lock the jib by inserting the locking bolt (27) into the hole in the top of the jib including a split washer (28).

l) Fasten the hook assembly (see item A) to the end of the jib extension with an M12 - 70mm bolt (46). Secure the bolt with a split washer (47) and a nut (48).

m) Check that all fastenings, nuts and bolts are tight before using the crane.

5.2 BLEEDING THE HYDRAULIC SYSTEM

Before being put into use the hydraulic system must be bled to ensure that no air remains in the system that may have gathered during transit.

a) Remove the rubber filler plug from the body of the hydraulic cylinder.

b) The release valve is spring loaded so that it always automatically closes when released. Get someone to hold the release valve open against the spring pressure by approximately a 1/4 to a 1/2 turn. Pump the hydraulic unit 7 or 8 times to expel any air and allow the valve to close. Continue pumping until the boom has raised by about 50cm.

c) Before replacing the rubber filler plug check that the oil level is just below the filler hole. If the oil needs topping up this must only be done with good quality hydraulic oil such as Sealey Hydraulic Jack Oil.

NOTE: Always allow the release valve to close automatically under spring pressure. **DO NOT** tighten it when it has shut as it may then become difficult to 'crack' open.

5.3 STORAGE.

a) Always store the crane fully closed so that the jib is in lowest position and the ram is closed as shown in fig.2.

b) To save space the legs may be folded into the upright position and secured in place using the Lock Pins as shown in fig.2.

6. OWNER'S & OPERATOR'S RESPONSIBILITIES

The owner and/or operator shall study these instructions and retain them for future use.

a) **Understanding instructions and warnings.**
The owner and/or operator shall understand the operating instructions and warnings before operating the crane.
Warning information must be emphasised and understood.
If the operator is not fluent in English, the product instructions and warnings must be read to and discussed with, the operator in the operator's native language by the owner, making sure the operator understands the contents.

b) **Damaged Cranes.**
Any crane which appears to be damaged, badly worn, or operates abnormally MUST BE REMOVED FROM SERVICE!
It is recommended that necessary repairs be made by an authorised service agent.

c) **End of service.**
Through years of normal wear, the crane will eventually become unserviceable. When this happens ensure the hydraulic oil is drained off and disposed of in accordance with local authority regulations.

7. TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	REMEDIES
1. Crane will not lift load.	Release valve not tightly closed. Excess air in system. Low oil level. Hydraulic unit malfunctioning	Check to see if release valve is stuck. Bleed hydraulic system. Top up oil as described in Section 4. Send to service agent for repair or replacement.
2. Crane will lift but not hold load.	Low oil level. Hydraulic unit malfunctioning	Top up oil as described in Section 4. Send to service agent for repair or replacement.
3. Crane will not completely lower.	Excess air in system. Low oil level. Hydraulic unit malfunctioning	Bleed hydraulic system. Top up oil as described in Section 4. Send to service agent for repair or replacement.
4. Crane lifting action feels spongy.	Excess air in system. Low oil level. Hydraulic unit malfunctioning	Bleed hydraulic system. Top up oil as described in Section 4. Send to service agent for repair or replacement.
5. Crane will not reach maximum height.	Excess air in system. Low oil level.	Bleed hydraulic system. Top up oil as described in Section 4.

Environmental Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

Your crane is guaranteed for one year from the date of purchase. The Guarantee does not cover faults caused by incorrect use, lack of maintenance, accidental damage or damage caused to third parties through misuse. You are recommended to inform your insurers and check that adequate cover is in place. Warranty claims must be supported by a copy of the dated purchase receipt.

NOTE: *It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.*
IMPORTANT: No liability is accepted for incorrect use of this product.
WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

SEALEY
Sole UK Distributor, Sealey Group,
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8. DECLARATION OF CONFORMITY

SEALEY POWER PRODUCTS

EC DECLARATION OF CONFORMITY

We the sole importers into the UK, hereby declare that the equipment described below

Description and Function: Folding Engine Crane Premier 1tonne Quick Lift

Model/Type: WF10Q

Serial number (optional):

Manufacturer's authorised representative within the EC: **Jack Sealey Ltd. Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk, IP32 7AR**

Conforms to the requirements of the following Directives, as indicated.

- ☒ 2006/42/EC Machinery Directive
- ☐ 2000/14/EC Outdoor Noise Emissions Directive
- ☐ 2006/95/EC Low Voltage Directive
- ☐ 2002/96/EC WEEE Directive
- ☐ 2004/108/EC EMC Directive
- ☐ 2002/95/EC RoHS Directive
- ☒ 93/68/EEC CE Marking Directive

And the following harmonised standard(s): **BS EN 14238: 2004 BS EN 12644 part 1: 2001**

BS EN 12644 part 2: 2000

National technical standards and specifications (if applicable):

Technical file compiled by: **Jack Sealey Ltd**.

Signed:

Date: 16-Nov-2009 **Place:** Bury St.Edmunds.

Name: Mark Sweetman

Position: Managing Director

Being the responsible person appointed by the manufacturer.

CE

Sealey Power Products, Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk, IP32 7AR
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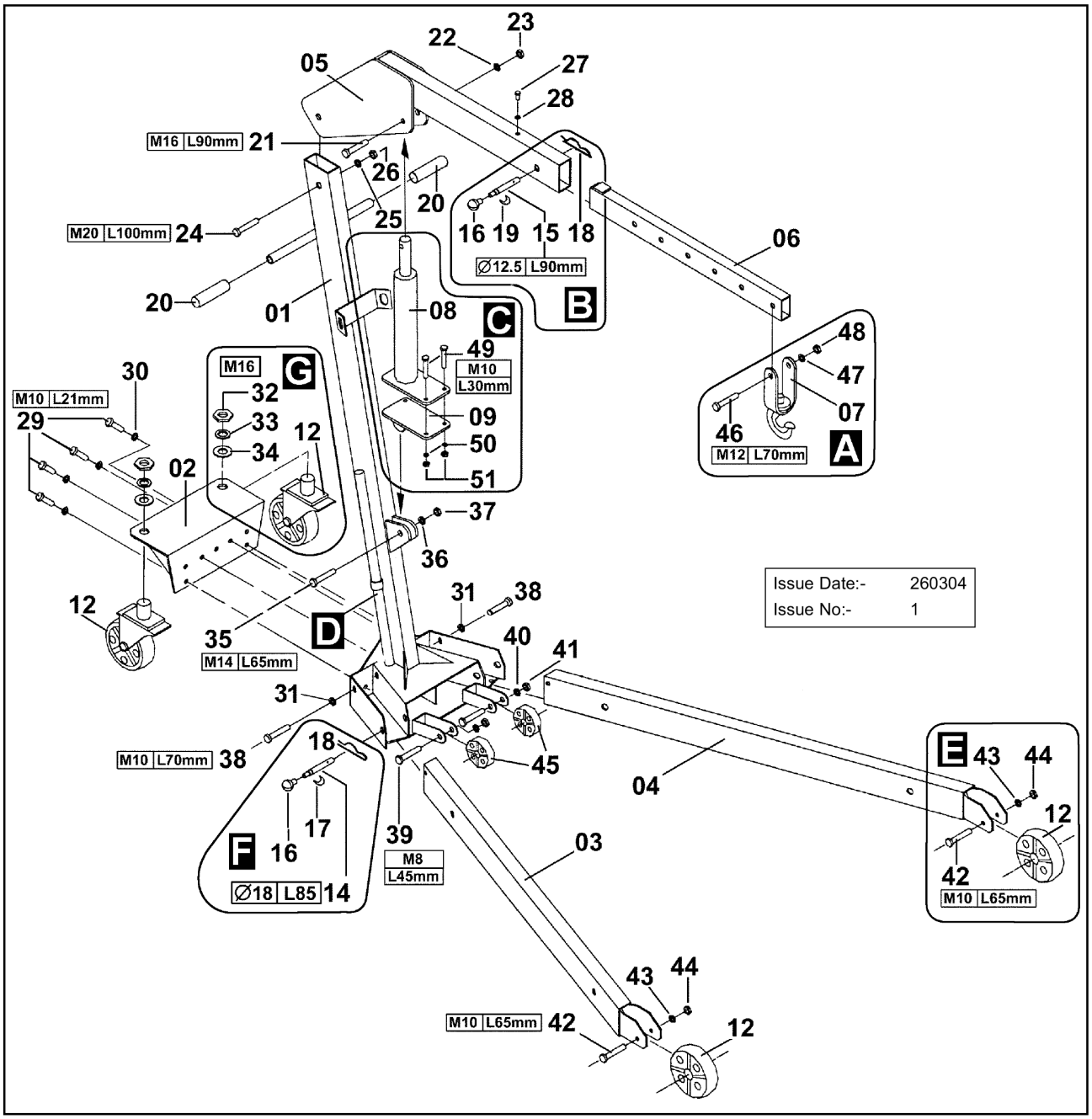
ASSEMBLY DIAGRAM & PARTS LIST:

1 TON, QUICK LIFT, FOLDING ENGINE CRANE: WF10Q



SPARE PART AVAILABILITY IS LIMITED TO THE KITS SHOWN BELOW

Item	Part No.	Description	Item	Part No.	Description
A	WF10Q-01	HOOK KIT	E	WF10Q-05	FIXED WHEEL KIT
B	WF10Q-02	JIB LOCKING PIN KIT	F	WF10Q-06	LEG LOCKING PIN KIT
C	WF10Q-03	HYDRAULIC UNIT COMPLETE	G	WF10Q-07	CASTOR WHEEL KIT
D	WF10Q-04	HANDLE		WF10Q-RK	REPAIR KIT (not shown)

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